

Ser. No. 09/853,856
Attorney Docket No. 2524-03

In the Specification:

On page 9, line 15, please amend the paragraph as follows:

Figs. 4(a) and (b) show the preferred signal probe tip assembly **100**, comprising a coaxial cable interface **109** which mates with a corresponding connector electrically connected back through the robotic arm to the testing instrumentation by coaxial cable and male/female connectors. The coaxial connector's ground is electrically connected to the ground flange **102**, and with the probe assembly body ~~back~~ bracket **400** through physical connection and through the two brass mounting screws **401** and thus with ground sleeve **110** through its mounting onto the probe assembly body bracket **400** with the two brass mounting screws **402**. The coaxial connector's signal is electrically connected with signal probe tip **104**, which is insulated from the ground flange **102**. The probe assembly body bracket **400**, has support holes which can be engaged by non-conductive bushings **212** to physically support the probe tip assembly. The preferred shape of signal probe tip **104** is shown in Figs. 4(c)-(e).

On page 10, line 11, please amend the paragraph as follows:

In order to overcome the difficulties inherent in making the signal and ground electrodes exactly the same length, as shown in Fig. 6, ~~the an~~ an outer electrode **510** can be configured as an axially spring-loaded conductor member in order to provide compliance. Alternatively, as shown in Fig. 7, the probe may be configured such that the entire connector assembly **520** is resilient rather than a single conductor. This results in movement of the signal electrode **521** instead of the ground electrode (not shown). Compliance is provided by having

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connector assembly **520** move along metal pins **522** in the upward direction as indicated by the arrow **535**, while contacting conductive washers **523** and conductive wave springs **524**. Movement is limited by conductive stops **525** attached to base bracket **530** by conductive mounting screws **526**. Short-throw wave washer type springs **524** are preferred in that these lessen the introduction of excess inductance into the system.